

**APPLICATION FOR STATION AUTHORIZATION IN THE  
PRIVATE OPERATIONAL FIXED MICROWAVE RADIO SERVICE**

**COPY** Approved by OME  
3080-8064  
Expires 10/31/92  
See instructions for information  
regarding public burden estimate

**FOR COMMISSION USE ONLY**

|  |                 |   |  |
|--|-----------------|---|--|
| FILE NUMBER: <b>0794171</b>  |                 | SEND TO ASB: <input type="checkbox"/> YES <input type="checkbox"/> NO                                   |  |
| FOR APPLICANT: Use FCC Form 402 Instructions dated December, 1989, or later for reference in completing form.  |                 |   |  |
| <b>SECTION I-IDENTIFICATION INFORMATION</b>  |                 |   |  |
| 1. NAME OF APPLICANT:<br>LIBERTY CABLE CO., INC.   |                 | 3. CALL SIGN: (If application refers to an existing Part 94 station)<br>WNTM-212                        |  |
| 2. MAILING ADDRESS: (No., street, city, state, ZIP code)<br><br>215 E. 95th Street<br>New York, NY 10128   |                 | 4. LICENSEE IDENTIFICATION NUMBER: (If previously assigned by the Commission) 005203-200                |  |
| <input type="checkbox"/> Check here if you are a current Part 94 licensee and your mailing address, item 2, IS NOT the address on file.  |                 | 5A. NAME OF PERSON TO CONTACT REGARDING APPLICATION<br>Jennifer L. Richter, Esq.                        |  |
|  |                 | 5B. TELEPHONE NUMBER OF THE CONTACT:<br>(202 ) 296-0600   |  |
| 6. TYPE OF APPLICANT: <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> ASSOCIATION<br><input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> GOVERNMENTAL ENTITY  |                 | 7. CLASS OF STATION:<br>(enter code) FXO  | 8. ELIGIBILITY RULE SECTION<br>90.75(a)(1) |
| 9A. PURPOSE OF APPLICATION:<br><input type="checkbox"/> NEW STATION <input checked="" type="checkbox"/> MODIFICATION (SEE 9B & 9C) <input type="checkbox"/> MODIFICATION WITH RENEWAL (SEE 9B & 9C) <input type="checkbox"/> ASSIGNMENT OF AUTHORIZATION <input type="checkbox"/> OTHER (SPECIFY)              |                 |   |  |
| 9B.  | PATH            | ACTION  | OLD VALUE OF KEY ITEMS CHANGED             |
|  | A               | <input checked="" type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE | 20    30    31    32                       |
|  | B               | <input checked="" type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE | 20    30    31    32                       |
|  | C               | <input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE            | 20    30    31    32                       |
|  | D               | <input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE            | 20    30    31    32                       |
|  | E               | <input type="checkbox"/> ADD <input type="checkbox"/> CHANGE <input type="checkbox"/> DELETE            | 20    30    31    32                       |
| 9C. DESCRIBE ANY OTHER CHANGES:  |                 |   |  |
| 10. WILL THIS SYSTEM BE USED TO PROVIDE A COMMUNICATIONS PRIVATE CARRIER SERVICE TO OTHERS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |                 |   |  |
| <b>SECTION II-ANTENNA INFORMATION</b>  |                 |   |  |
| 11. LOCATION OF TRANSMITTING ANTENNA STRUCTURE:  |                 |   |  |
| A. NUMBER AND STREET: (or other specific indication)<br>205 East 64th Street (Bristol Plaza)   |                 | B. CITY:<br>New York  |  |
| C. COUNTY:<br>New York   | D. STATE:<br>NY | E. COORDINATES: (Degrees, Minutes, Seconds)<br>LATITUDE: 40-45-53    N    LONGITUDE: 73-57-48    W      |  |
| 12A. IS THE ANTENNA TO BE MOUNTED ON AN EXISTING ANTENNA STRUCTURE? IF YES, ANSWER ITEMS 12B, C, D, & E. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO   |                 |   |  |
| 12B. WILL THE ANTENNA INCREASE THE HEIGHT OF THE EXISTING STRUCTURE? IF YES, BY HOW MANY FEET? <input type="checkbox"/> YES <input type="checkbox"/> NO FT   |                 |   |  |
| 12C. NAME OF CURRENT LICENSEE USING STRUCTURE:   |                 | <b>FOR COMMISSION USE ONLY</b><br><br>ASB:  |  |
| 12D. CURRENT LICENSEE'S RADIO SERVICE:   |                 |   |  |
| 12E. CURRENT LICENSEE'S CALL SIGN:   |                 |   |  |
| 13. FOR ANTENNA TOWERS (OR POLES) MOUNTED ON THE GROUND: ENTER THE OVERALL HEIGHT ABOVE GROUND OF THE ENTIRE ANTENNA (OR POLE) INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, OBSTRUCTION LIGHTING, ETC. MOUNTED ON IT ..... FT   |                 |   |  |
| 14. FOR ANTENNAS OR ANTENNA TOWERS (OR POLES) MOUNTED ON A SUPPORTING STRUCTURE SUCH AS A BUILDING, WATER TOWER, SMOKE STACK, ETC.:  |                 |   |  |
| 14A. WHAT IS THE OVERALL HEIGHT ABOVE GROUND OF THIS SUPPORTING STRUCTURE? INCLUDE IN THIS HEIGHT ANY ELEVATOR SHAFTS, PENTHOUSES, LIGHTNING RODS, LIGHTS, ETC., WHICH ARE NOT PART OF THE ANTENNA TOWER (OR POLE) ..... 530 FT  |                 |   |  |
| 14B. HOW MANY FEET DOES THE ANTENNA TOWER (OR POLE) (INCLUDING ALL ANTENNAS, DISHES, LIGHTNING RODS, LIGHTS, ETC.) INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE IN ITEM 14A? IF THIS ANTENNA OR ANTENNA TOWER (OR POLE) DOES NOT INCREASE THE HEIGHT OF THE SUPPORTING STRUCTURE, ENTER ZERO (0) ..... 0 FT |                 |   |  |
| 14C. WHAT IS THE OVERALL HEIGHT OF THIS SUPPORTING STRUCTURE PLUS THE ANTENNA TOWER (OR POLE)? ..... 530 FT  |                 |   |  |
| 15. GIVE THE GROUND ELEVATION ABOVE MEAN SEA LEVEL AT THE ANTENNA SITE ..... 60 FT   |                 |   |  |
| 16A. NAME OF NEAREST AIRCRAFT LANDING AREA:<br>La Guardia  |                 | 16B. DIRECTION AND DISTANCE TO NEAREST RUNWAY:<br>E NE 4.9 Miles  |  |

|   |   |
|---|---|
| 17A. Has notice of construction been filed with the FAA on FAA Form 7460-1? If yes, answer items 17B, C, and D <span style="float:right"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>   |   |
| 17B. NAME UNDER WHICH YOU FILED:  | 17C. FAA REGIONAL OFFICE: (City) <span style="float:right">17D. DATE FILED</span> |
| 18. Would a Commission grant of your application be an action which may have a significant environmental effect as defined by Section 1.1307 of the Commission's Rules? See Instruction 18. If you answer yes, submit the statement as required by Sections 1.1308 and 1.1311. <span style="float:right"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span> |   |
| 19. If this is an existing station, enter the year it was first licensed: 1992  |   |

### SECTION III—TECHNICAL INFORMATION

| NAME OF ITEM                                  | A | B | C | D | E |
|---|---|---|---|---|---|
| 20. Frequency (MHz) <u>18145.0-18577.0</u>    |   |   |   |   |   |
| 21. Bandwidth (kHz) and Emission Type         |   |   |   |   |   |
| 22. Type of Message Service                   |   |   |   |   |   |
| 23. Initial Baseband Channel Loading          |   |   |   |   |   |
| 24. 10 yr. Projected Baseband Channel Loading |   |   |   |   |   |

### TRANSMITTER INFORMATION

| NAME OF ITEM   | A | B | C | D | E |
|--|---|---|---|---|---|
| 25. Transmitter Operating Frequency Tolerance (%)                    |   |   |   |   |   |
| 26. Antenna Gain (dBi)   |   |   |   |   |   |
| 27. Effective Isotropic Radiated Power (dBm)                         |   |   |   |   |   |
| 28. Beamwidth (Degrees)  |   |   |   |   |   |
| 29. Height to Center of Final Radiating Element (Ft)                 |   |   |   |   |   |
| 30. Polarization   |   |   |   |   |   |
| 31. Azimuth to Receive Site or Passive Repeater (PR) No. 1 (Degrees) |   |   |   |   |   |

### RECEIVE SITE INFORMATION

| NAME OF ITEM  | A | B | C | D | E |
|---|---|---|---|---|---|
| 32. Receiving Station's Call Sign                               |   |   |   |   |   |
| 33. Receiving Antenna Gain (dBi)                                |   |   |   |   |   |
| 34. Median Received Signal Level at Input to the Receiver (dBm) |   |   |   |   |   |
| 35. Latitude N (Degrees, Minutes, Seconds)                      |   |   |   |   |   |
| 36. Longitude W (Degrees, Minutes, Seconds)                     |   |   |   |   |   |
| 37. Ground Elevation AMSL (Ft)                                  |   |   |   |   |   |
| 38. Height to Center of Receiving Antenna (Ft)                  |   |   |   |   |   |

### PASSIVE REPEATER NO. 1 INFORMATION (IF ANY)

☐ If you have two or more passive repeaters on the same transmission path, check this box and answer items 39-46 on an additional FCC Form 402 or a separate sheet of paper for the second and successive passive repeaters.

| NAME OF ITEM   | A | B | C | D | E |
|--|---|---|---|---|---|
| 39. Latitude N (Degrees, Minutes, Seconds)                   |   |   |   |   |   |
| 40. Longitude W (Degrees, Minutes, Seconds)                  |   |   |   |   |   |
| 41. Ground Elevation AMSL (Ft)                               |   |   |   |   |   |
| 42. Overall Height of PR Structure Above Ground (Ft)         |   |   |   |   |   |
| 43. Dimensions (Ft X Ft) or Beamwidth (for dishes) (Degrees) |   |   |   |   |   |
| 44. Height Above Ground to Center of PR (Ft)                 |   |   |   |   |   |
| 45. Polarization   |   |   |   |   |   |
| 46. Azimuth to Receive Site or Next PR (Degrees)             |   |   |   |   |   |

### SECTION IV—CERTIFICATION

1. Applicant certifies that a copy of CFR 47, Part 94 has been retained for reference.
2. Applicant waives any claim to the use of any particular frequency regardless of prior use by licensee or otherwise.
3. Applicant will have unlimited access to the radio equipment and will control access and exclude unauthorized persons.
4. Neither applicant nor any member thereof is a foreign government or representative thereof.
5. Applicant will utilize type accepted radio equipment and antenna of correct specifications.
6. Applicant certifies that all statements made in this application and attachments are true and complete.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ATTACHMENTS ARE PUNISHABLE BY FINE AND IMPRISONMENT U.S. CODE TITLE 18 SECTION 1001

|   |                                   |
|---|-----------------------------------|
| TYPED NAME:<br>Behrooz Nourain  | TITLE:<br>Director of Engineering |
| SIGNATURE of individual, partner, official of a governmental entity, officer or authorized employee of a corporation, or officer who is also a member of the association:<br> | DATE:<br>5/19/93                  |

NOTICE TO INDIVIDUALS REQUIRED BY PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980  
Sections 301, 303, and 308 of the Communications Act of 1934, as amended, (licensing powers) authorize the FCC to request the information on this application. The purpose of the information is to determine your eligibility for a license. The information will be used by FCC staff to evaluate the application, to determine station location, to provide information for enforcement and rule-making proceedings and to maintain a current inventory of licensees. No license can be granted unless all information requested is provided. Your response is required to obtain this authorization

## FCC FORM 402 ENGINEERING DATA

## SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : 205 EAST 64 , NY  
TRANSMITTER COORDINATES : 40 45 53.0 N  
73 57 48.0 W

20. FREQUENCY (MHZ): SEE EXHIBIT  
21. EMISSION: SEE EXHIBIT  
22. TYPE OF MESSAGE SERVICE: VIDEO  
23. INITIAL BASEBAND CHANNEL LOADING: 1  
24. 10 YR PROJ. BASEBAND CHANNEL LOAD: 1

## TRANSMITTER INFORMATION

25. OPERATING FREQ. TOL(%): 0.000500  
26. ANTENNA GAIN (DBI): 44.7  
27. EFFECTIVE RADIATED POWER (DBM): 23.7  
28. BEAM WIDTH (DEGREES): 0.9  
29. CENTER OF RADIATING ELEMENT (FT): 520.0  
30. POLARIZATION: V  
31. AZIMUTH TO NEXT STATION OR PR1(DEG): 11.461

## RECEIVER INFORMATION

RECEIVER SITE NAME : 155 EAST 73 , NY

32. CALL SIGN:  
33. RECEIVING ANTENNA GAIN (DBI): 44.7  
34. MEDIAN RECEIVED SIGNAL LEVEL (DBM): -46.5  
35. LATITUDE N. (DD MM SS): 40 46 15.5  
36. LONGITUDE W. (DDD MM SS): 73 57 42.0  
37. GROUND ELEVATION AMSL (FT): 60.0  
38. HT. TO RECEIVING ANTENNA (FT): 120.0

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## SUPPLEMENTAL INFORMATION

## TRANSMITTER INFORMATION

TRANSMITTER ANTENNA MAKE: CABLEWAVE SYSTEMS  
TRANSMITTER ANTENNA MODEL: PA4-190  
EQUIPMENT MAKE: HUGHES AIRCRAFT CO  
EQUIPMENT MODEL: DOO63QAMLMOT18120

## RECEIVER INFORMATION

RECEIVING ANTENNA MAKE: CABLEWAVE SYSTEMS  
RECEIVING ANTENNA MODEL: PA4-190

\*\*\* COMSEARCH \*\*\*

## FCC FORM 402 ENGINEERING DATA

## SECTION III-TECHNICAL INFORMATION

TRANSMITTER SITE NAME : 205 EAST 64 , NY  
TRANSMITTER COORDINATES : 40 45 53.0 N  
73 57 48.0 W

20. FREQUENCY (MHZ): SEE EXHIBIT  
21. EMISSION: SEE EXHIBIT  
22. TYPE OF MESSAGE SERVICE: VIDEO  
23. INITIAL BASEBAND CHANNEL LOADING: 1  
24. 10 YR PROJ. BASEBAND CHANNEL LOAD: 1

## TRANSMITTER INFORMATION

25. OPERATING FREQ. TOL(%): 0.000500  
26. ANTENNA GAIN (DBI): 44.7  
27. EFFECTIVE RADIATED POWER (DBM): 19.7  
28. BEAM WIDTH (DEGREES): 0.9  
29. CENTER OF RADIATING ELEMENT (FT): 520.0  
30. POLARIZATION: V  
31. AZIMUTH TO NEXT STATION OR PR1(DEG): 356.046

## RECEIVER INFORMATION

RECEIVER SITE NAME : IMPERIAL HOU, NY

32. CALL SIGN:  
33. RECEIVING ANTENNA GAIN (DBI): 48.2  
34. MEDIAN RECEIVED SIGNAL LEVEL (DBM): -40.6  
35. LATITUDE N. (DD MM SS): 40 46 4.0  
36. LONGITUDE W. (DDD MM SS): 73 57 49.0  
37. GROUND ELEVATION AMSL (FT): 82.0  
38. HT. TO RECEIVING ANTENNA (FT): 269.0

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## SUPPLEMENTAL INFORMATION

## TRANSMITTER INFORMATION

|                            |                    |
|----------------------------|--------------------|
| TRANSMITTER ANTENNA MAKE:  | CABLEWAVE SYSTEMS  |
| TRANSMITTER ANTENNA MODEL: | PA4-190            |
| EQUIPMENT MAKE:            | HUGHES AIRCRAFT CO |
| EQUIPMENT MODEL:           | DOO63QAMLMOT18120  |

## RECEIVER INFORMATION

|                          |                   |
|--------------------------|-------------------|
| RECEIVING ANTENNA MAKE:  | CABLEWAVE SYSTEMS |
| RECEIVING ANTENNA MODEL: | PA6-190           |

\*\*\* COMSEARCH \*\*\*

**EXHIBIT #1**

| <u>FREQUENCY</u> | <u>EMISSION DESIGNATOR</u> |
|------------------|----------------------------|
| 18145.0          | 5750A5C/250F3              |
| 18151.0          | 5750A5C/250F3              |
| 18157.0          | 5750A5C/250F3              |
| 18163.0          | 100AO                      |
| 18169.0          | 5750A5C/250F3              |
| 18175.0          | 5750A5C/250F3              |
| 18181.0          | 5750A5C/250F3              |
| 18187.0          | 5750A5C/250F3              |
| 18193.0          | 5750A5C/250F3              |
| 18199.0          | 5750A5C/250F3              |
| 18205.0          | 5750A5C/250F3              |
| 18211.0          | 5750A5C/250F3              |
| 18217.0          | 5750A5C/250F3              |
| 18223.0          | 5750A5C/250F3              |
| 18229.0          | 5750A5C/250F3              |
| 18235.0          | 5750A5C/250F3              |
| 18241.0          | 5750A5C/250F3              |
| 18247.0          | 5750A5C/250F3              |
| 18253.0          | 5750A5C/250F3              |
| 18259.0          | 5750A5C/250F3              |
| 18265.0          | 5750A5C/250F3              |
| 18271.0          | 5750A5C/250F3              |
| 18277.0          | 5750A5C/250F3              |
| 18283.0          | 5750A5C/250F3              |
| 18289.0          | 5750A5C/250F3              |
| 18295.0          | 5750A5C/250F3              |
| 18301.0          | 5750A5C/250F3              |
| 18307.0          | 5750A5C/250F3              |
| 18313.0          | 5750A5C/250F3              |
| 18319.0          | 5750A5C/250F3              |
| 18325.0          | 5750A5C/250F3              |
| 18331.0          | 5750A5C/250F3              |
| 18337.0          | 5750A5C/250F3              |
| 18343.0          | 5750A5C/250F3              |
| 18349.0          | 5750A5C/250F3              |
| 18355.0          | 5750A5C/250F3              |
| 18361.0          | 5750A5C/250F3              |
| 18367.0          | 5750A5C/250F3              |
| 18373.0          | 5750A5C/250F3              |
| 18379.0          | 5750A5C/250F3              |
| 18385.0          | 5750A5C/250F3              |
| 18391.0          | 5750A5C/250F3              |
| 18397.0          | 5750A5C/250F3              |
| 18403.0          | 5750A5C/250F3              |
| 18409.0          | 5750A5C/250F3              |
| 18415.0          | 5750A5C/250F3              |
| 18421.0          | 5750A5C/250F3              |
| 18427.0          | 5750A5C/250F3              |
| 18433.0          | 5750A5C/250F3              |
| 18439.0          | 5750A5C/250F3              |
| 18445.0          | 5750A5C/250F3              |

EXHIBIT #1 CONTINUED

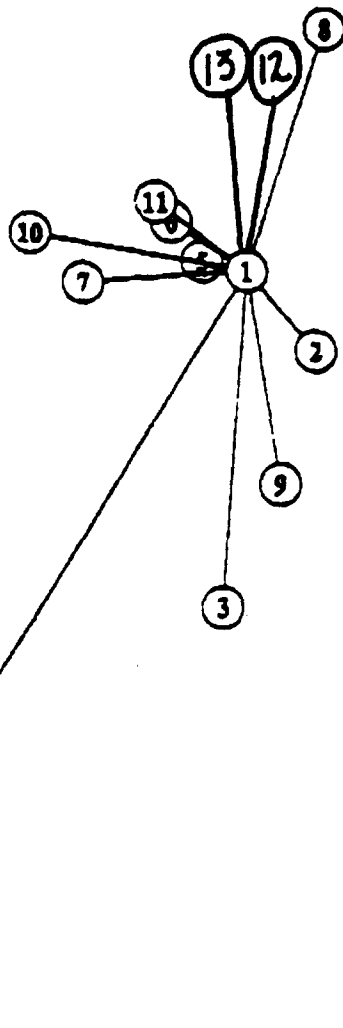
| <u>FREQUENCY</u> | <u>EMISSION DESIGNATOR</u> |
|------------------|----------------------------|
| 18451.0          | 5750A5C/250F3              |
| 18457.0          | 5750A5C/250F3              |
| 18463.0          | 5750A5C/250F3              |
| 18469.0          | 5750A5C/250F3              |
| 18475.0          | 5750A5C/250F3              |
| 18481.0          | 5750A5C/250F3              |
| 18487.0          | 5750A5C/250F3              |
| 18493.0          | 5750A5C/250F3              |
| 18499.0          | 5750A5C/250F3              |
| 18505.0          | 5750A5C/250F3              |
| 18511.0          | 5750A5C/250F3              |
| 18517.0          | 5750A5C/250F3              |
| 18523.0          | 5750A5C/250F3              |
| 18529.0          | 5750A5C/250F3              |
| 18535.0          | 5750A5C/250F3              |
| 18541.0          | 5750A5C/250F3              |
| 18547.0          | 5750A5C/250F3              |
| 18553.0          | 5750A5C/250F3              |
| 18559.0          | 5750A5C/250F3              |
| 18565.0          | 5750A5C/250F3              |
| 18571.0          | 5750A5C/250F3              |
| 18577.0          | 5750A5C/250F3              |

**STATEMENT OF ELIGIBILITY AND USE**

Applicant is engaged in the operation of a commercial activity as a provider of video entertainment programming to customers. Therefore, Applicant is eligible for operational-fixed microwave frequencies under section 90.75(a)(1) of the Commission's rules.

Applicant proposes to distribute its own products and services to customers using operational-fixed frequencies in the band 18,142-18,580 MHz. Pursuant to section 94.31(j) of the Commission's rules, the nature of the products and services to be distributed are described below. Applicant is the owner and operator of various private cable (SMATV) systems and proposes the point-to-point distribution of video entertainment material to private cable buildings and ultimately subscribers to the service. Section 94.9(a)(1) of the Commission's rules prohibits the distribution of video entertainment material to customers on frequencies below 21,200 MHz except as provided in Section 94.61(b) and Section 94.9(a)(2). Section 94.9(a)(2) authorizes a licensee to transmit any of its own products or services, including video entertainment programming, to any receiving location on frequencies in the 18,142-18,580 MHz band. Thus, Applicant's proposed use of the 18,142-18,580 MHz band frequencies is consistent with the Commission's rules.

## FUNCTIONAL SYSTEM DIAGRAM



## SITE INFORMATION

- ① **BRISTOL PLAZA**  
LAT: 40 - 45 - 53.0  
LONG: 73 - 57 - 48.0
- ② **340**  
LAT: 40 - 45 - 45.0  
LONG: 73 - 57 - 39.0
- ③ **RIVER TOWER**  
LAT: 40 - 45 - 20.0  
LONG: 73 - 57 - 52.0
- ④ **WINDSOR COURT**  
LAT: 40 - 44 - 41.0  
LONG: 73 - 58 - 50.0
- ⑤ **160 EAST 65TH STREET**  
LAT: 40 - 45 - 54.0  
LONG: 73 - 57 - 54.0
- ⑥ **733 PARK AVENUE**  
LAT: 40 - 45 - 58.0  
LONG: 73 - 57 - 58.0
- ⑦ **540 PARK AVENUE**  
LAT: 40 - 45 - 52.0  
LONG: 73 - 58 - 10.0
- ⑧ **175 EAST 74TH STREET**  
LAT: 40 - 46 - 17.0  
LONG: 73 - 57 - 37.0
- ⑨ **400 EAST 59TH STREET**  
LAT: 40 - 45 - 32.0  
LONG: 73 - 57 - 44.0
- ⑩ **812 5TH AVENUE**  
LAT: 40 - 45 - 57.0  
LONG: 73 - 58 - 17.0
- ⑪ **116 EAST 66TH STREET**  
LAT: 40 - 46 - 0.0  
LONG: 73 - 58 - 0.0
- ⑫ **155 East 73rd Street**  
Lat: 40-46-15.5  
Long: 73-57-42
- ⑬ **Imperial House**  
Lat: 40-46-04  
Long: 73-57-49

**LIBERTY CABLE COMPANY**  
**18 GHZ CABLE SYSTEM**



COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

LIBERTY CABLE CO., INC.

04/12/93

## MICROWAVE PATH DATA

|                       |  |                   |
|-----------------------|--|-------------------|
| STATION NAME          | 205 EAST 64 NY   | 155 EAST 73 NY    |
| PATH STATUS           | PROPOSED OR PRIOR COORDINATED  |                   |
| CALL SIGN             | WNTM212  |                   |
| LATITUDE (D-M-S)      | 40 45 53.0   | 40 46 15.5        |
| LONGITUDE (D-M-S)     | 73 57 48.0   | 73 57 42.0        |
| GROUND ELEV (FT-AMSL) | 60   | 60                |
| PATH AZIMUTH (DEG)    | 11.461   | 191.462           |
| PATH DISTANCE (MILES) |  | 0.440             |
|                       |  | 0.708             |
| ANTENNA               |  |                   |
| PRIMARY TX            | CABLEWAVE SYSTEMS  | NOT APPLICABLE    |
|                       | PA4-190  |                   |
| FCC CODE              | CB0082   |                   |
| GAIN (dBi)            | 44.7   |                   |
| C/L (FT-AGL)          | 520  |                   |
| PRIMARY RX            | NOT APPLICABLE   | CABLEWAVE SYSTEMS |
|                       |  | PA4-190           |
| FCC CODE              |  | CB0082            |
| GAIN (dBi)            |  | 44.7              |
| C/L (FT-AGL)          |  | 120               |
| DIVERSITY             |  |                   |
| FCC CODE              |  |                   |
| GAIN (dBi)            |  |                   |
| C/L (FT-AGL)          |  |                   |
| EQUIPMENT             | HUGHES AIRCRAFT CO   | RECEIVE           |
|                       | DOO63QAMLMOT18120  | ONLY              |
| FCC CODE              | PENDING  |                   |
| EMISSION              | 5M75C3F/250F3/100AO  |                   |
| LOADING               | VIDEO  |                   |
| STABILITY (%)         | 0.000500   |                   |
| POWER (DBM)           | -10.0  |                   |
| RECEIVED LEVEL (DBM)  |  | -46.5             |
| EIRP (DBM)            | 23.7   |                   |
| FIXED LOSSES (DB)     | 11.0   | 0.0               |
| FREE SPACE LOSS (DB)  | 114.9  |                   |
| TRANSMIT              | 18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V |                   |
| FREQUENCIES           | 18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V |                   |
| (MHZ)                 | 18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V |                   |
|                       | 18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V |                   |
|                       | 18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V |                   |
|                       | 18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V |                   |
|                       | 18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V |                   |
|                       | 18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V |                   |
|                       | 18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V |                   |
|                       | 18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V |                   |
|                       | 18565.0V, 18571.0V, 18577.0V   |                   |

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

LIBERTY CABLE CO., INC.

04/12/93

## MICROWAVE PATH DATA

|                              |  |                   |
|------------------------------|--|-------------------|
| <u>STATION NAME</u>          | 205 EAST 64 NY   | IMPERIAL HOU NY   |
| <u>PATH STATUS</u>           | PROPOSED OR PRIOR COORDINATED  |                   |
| <u>CALL SIGN</u>             | WNTM212  |                   |
| <u>LATITUDE</u> (D-M-S)      | 40 45 53.0   | 40 46 4.0         |
| <u>LONGITUDE</u> (D-M-S)     | 73 57 48.0   | 73 57 49.0        |
| <u>GROUND ELEV</u> (FT-AMSL) | 60   | 82                |
| <u>PATH AZIMUTH</u> (DEG)    | 356.046  | 176.046           |
| <u>PATH DISTANCE</u> (MILES) |  | 0.211             |
| (KM)                         |  | 0.340             |
| <u>ANTENNA</u>               |  |                   |
| <u>PRIMARY</u> TX            | CABLEWAVE SYSTEMS  | NOT APPLICABLE    |
|                              | PA4-190  |                   |
| <u>FCC CODE</u>              | CB0082   |                   |
| <u>GAIN</u> (dBi)            | 44.7   |                   |
| <u>C/L</u> (FT-AGL)          | 520  |                   |
| <u>PRIMARY</u> RX            | NOT APPLICABLE   | CABLEWAVE SYSTEMS |
|                              |  | PA6-190           |
| <u>FCC CODE</u>              |  | CB0093            |
| <u>GAIN</u> (dBi)            |  | 48.2              |
| <u>C/L</u> (FT-AGL)          |  | 269               |
| <u>DIVERSITY</u>             |  |                   |
| <u>FCC CODE</u>              |  |                   |
| <u>GAIN</u> (dBi)            |  |                   |
| <u>C/L</u> (FT-AGL)          |  |                   |
| <u>EQUIPMENT</u>             | HUGHES AIRCRAFT CO   | RECEIVE           |
|                              | DOO63QAMLMOT18120  | ONLY              |
| <u>FCC CODE</u>              | PENDING  |                   |
| <u>EMISSION</u>              | 5M75C3F/250F3/100AO  |                   |
| <u>LOADING</u>               | VIDEO  |                   |
| <u>STABILITY</u> (%)         | 0.000500   |                   |
| <u>POWER</u> (DBM)           | -10.0  |                   |
| <u>RECEIVED LEVEL</u> (DBM)  |  | -40.6             |
| <u>EIRP</u> (DBM)            | 19.7   |                   |
| <u>FIXED LOSSES</u> (DB)     | 15.0   | 0.0               |
| <u>FREE SPACE LOSS</u> (DB)  | 108.5  |                   |
| <u>TRANSMIT</u>              | 18145.0V, 18151.0V, 18157.0V, 18163.0V, 18169.0V, 18175.0V, 18181.0V |                   |
| <u>FREQUENCIES</u>           | 18187.0V, 18193.0V, 18199.0V, 18205.0V, 18211.0V, 18217.0V, 18223.0V |                   |
| <u>(MHZ)</u>                 | 18229.0V, 18235.0V, 18241.0V, 18247.0V, 18253.0V, 18259.0V, 18265.0V |                   |
|                              | 18271.0V, 18277.0V, 18283.0V, 18289.0V, 18295.0V, 18301.0V, 18307.0V |                   |
|                              | 18313.0V, 18319.0V, 18325.0V, 18331.0V, 18337.0V, 18343.0V, 18349.0V |                   |
|                              | 18355.0V, 18361.0V, 18367.0V, 18373.0V, 18379.0V, 18385.0V, 18391.0V |                   |
|                              | 18397.0V, 18403.0V, 18409.0V, 18415.0V, 18421.0V, 18427.0V, 18433.0V |                   |
|                              | 18439.0V, 18445.0V, 18451.0V, 18457.0V, 18463.0V, 18469.0V, 18475.0V |                   |
|                              | 18481.0V, 18487.0V, 18493.0V, 18499.0V, 18505.0V, 18511.0V, 18517.0V |                   |
|                              | 18523.0V, 18529.0V, 18535.0V, 18541.0V, 18547.0V, 18553.0V, 18559.0V |                   |
|                              | 18565.0V, 18571.0V, 18577.0V   |                   |

FREQUENCY COORDINATION

Pursuant to section 94.15(b) of the FCC's rules, Applicant has conducted a frequency engineering analysis of the potential interference between the proposed facilities and previously authorized and pending applications. Attached hereto are the Supplemental Showings of Comsearch certifying compliance with the interference standards of sections 21.100(d) and 94.63 of the FCC's rules.



APRIL 12, 1993

\*\*\*\*\*  
\*\*\* CLIENT COPY \*\*\*  
\*\*\* PLEASE MAIL \*\*\*  
\*\*\* TO CUSTOMER \*\*\*

RE: Liberty Cable Co., Inc.  
215 East 95th Street, New York, NY 10128  
18 GHz Video Microwave System  
Receive Antenna Change (page 4 of 4)  
Previous PCN Dated 04/01/93  
205 East 64th -> 155 East 73rd, NY  
Changes Have Been Underlined  
205 East 64th -> Imperial House, NY  
420 East 54th -> Passive -> 333 E 55th, NY

Dear Sir or Madam:

On behalf of Liberty Cable Co., Inc., we are forwarding the attached coordination data for the proposed microwave paths referenced above, pursuant to Parts 21.100(d) and 94.15(a) of the FCC Rules.

Please examine this data for potential interference with your stations. In the event that interference problems are discovered, please notify us at your earliest convenience. If a response is not received within thirty days of 04/15/93, we will assume that you have no objections to this proposal.

If you have any questions or require additional information, please call me.

Sincerely,

Michael R. Roth  
Engineer  
Transmission Planning Services

Enclosure



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.  
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PURSUANT TO PART 21.100(D) OF THE FCC RULES AND REGULATIONS THE ABOVE REFERENCED MICROWAVE ROUTE WAS COORDINATED WITH THE EXISTING LICENSEES AND APPLICANTS WHOSE FACILITIES COULD BE AFFECTED. COORDINATION DATA WAS FORWARDED ON APRIL 12, 1993.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AAD MICROWAVE SERVICES CORPORATION  
AAT COMMUNICATIONS CORPORATION  
ABC RADIO NETWORK INC  
ABRAHAM AND STRAUS  
ACC NETWORK CORPORATION  
AETNA LIFE INSURANCE COMPANY  
ALBANY TELEPHONE COMPANY  
ALLENTOWN CELLULAR TELEPHONE COMPANY  
AMERICAN CELL. NET. CORP. dba COMCAST CE  
AMERICAN SATELLITE COMPANY  
AMICA MUTUAL INSURANCE CO C/O NEW ENG DI  
ASSOCIATED PRESS - CTS ENGINEERING  
AT&T COMMUNICATIONS  
BELL ATLANTIC - NSS  
BELL COMMUNICATIONS RESEARCH, INC.  
BLUE CROSS BLUE SHIELD OF MASSACHUSETTS  
BOLT BERANEK AND NEWMAN INC  
BOSTON EDISON COMPANY  
CABLE SCIENCE CORPORATION  
CANTON CELLULAR TELEPHONE - PENNSYLVANIA  
CARL COMPANY  
CELLULAR OF UPSTATE NEW YORK



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

CELLULAR TELEPHONE COMPANY OF NEW YORK  
CHANNEL 13 TELEVISION  
CHANNEL 20 LICENSEE INC  
CHASE MANHATTAN BANK  
CITY UNIVERSITY OF NEW YORK  
COLUMBIA UNIVERSITY  
COMDISCO DISASTER RECOVERY SERVICE  
COMMUNITY HOME ENTERTAINMENT  
COMPUGRAPHIC  
COMSEARCH  
CONNECTICUT BANK AND TRUST COMPANY  
CONNECTICUT LIGHT AND POWER COMPANY  
CONNECTICUT PUBLIC BROADCASTING, INC.  
CONSOLIDATED EDISON COMPANY OF NEW YORK  
CONSOLIDATED RAIL CORPORATION  
CONSOLIDATED SPECTRUM SERVICES  
CORP. SATELLITE COMMUNICATIONS INC (CSC)  
DEAD COMPANY  
DELMARVA POWER & LIGHT CO.  
DIGICOM INC  
DOW JONES AND COMPANY, INC.  
EBASCO SERVICES, INC.  
EDUCATIONAL BROADCASTING COMPANY  
EDWARDS AND KELCEY INC



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

EMI COMMUNICATIONS CORPORATION  
FAIRCHILD COMM NETWORK MNGMT CO  
FIRST BOSTON CORPORATION  
FIRST NATIONAL BANK OF BOSTON  
FIRST NATIONAL BANK OF MARYLAND  
FRANKLIN COUNTY OF  
GREENWICH POLICE DEPARTMENT  
GROUP W TELEVISION / WJZ TV  
GRUMMAN AEROSPACE CORPORATION  
HARRISBURG CELLULAR TELEPHONE COMPANY  
HUDSON VALLEY COMMUNITY COLLEGE  
IBM RESEARCH AND DEVELOPMENT, INC.  
INTERACTIVE MEDIA SERVICES  
LAUREL RACETRACK  
LAWRENCE SCHOOL DISTRICT  
LEVER BROTHERS  
LIZ CLAIBORNE, INC.  
LOCAL AREA TELECOMMUNICATIONS INC  
LONG ISLAND RAILROAD COMMUNICATIONS DEP  
MALRITE  
MARYLAND STATE OF MASS TRANSIT ADMIN  
MCGRAW HILL, INC. NET ENG N-1  
MCI TELECOMMUNICATIONS CORPORATION  
MEDICAL COLLEGE OF PENNSYLVANIA  
METRO CABLE SYSTEMS, INC.



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

METRO MOBILE CTS OF FAIRFIELD COUNTY  
METROMEDIA COMMUNICATIONS CORPORATION  
METRONET COMMUNICATIONS  
METRONET INC RADIO PAGING  
MICRO TEL OF LONG ISLAND, INC.  
MICROBAND CORPORATION OF AMERICA  
MICROBAND WIRELESS CABLE OF NEW YORK, IN  
MICRONET COMMUNICATIONS, INC.  
MICRONET, INC.  
MICROWAVE PLANNING, INC.  
MICROWAVE SATELLITE TECH. - WOODSIDE  
MIDLAND COMMUNICATIONS CORPORATION  
MORGAN STANLEY  
MOTOROLA C & E, INC  
NASSAU, COUNTY OF POLICE DEPARTMENT  
NATIONAL WESTMINSTER BANK  
NBC SUBSIDIARY (WNBC-TV, INC.)  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NEW ENGLAND MICROWAVE INC (STORER)  
NEW ENGLAND TELEPHONE COMPANY  
NEW JERSEY BELL TELEPHONE COMPANY  
NEW JERSEY INTERCAMPUS NETWORK, INC.  
NEW JERSEY PUBLIC BROADCASTING AUTHORITY  
NEW YORK STATE OF OFFICE GENERAL SRVCS



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

NEW YORK CELLULAR GEOGRAPHIC SRVC AREA  
NEW YORK CGSA FOR ALBANY  
NEW YORK CITY HEALTH & HOSPITAL CORP  
NEW YORK CITY POLICE DEPARTMENT  
NEW YORK STATE ASSEMBLY  
NEW YORK STATE ELECTRIC AND GAS  
NEW YORK STATE HOSPITAL  
NEW YORK TELEPHONE  
NEW YORK UNIVERSITY, TELECOM. DEP'T.  
NEW YORK, CITY OF BOARD OF EDUCATION  
NORTHEASTERN PENNSYLVANIA CELLULAR TEL  
NORTHFIELD MT HERMON SCHOOL  
ORANGE COUNTY CELLULAR TELEPHONE CORP.  
OTSEGO COUNTY, NEW YORK  
PAINE-WEBBER  
PHOENIX COMMUNICATIONS, INC.  
PORT AUTHORITY OF NEW YORK & NEW JERSEY  
PROVIDENCE JOURNAL  
PRUDENTIAL BACHE SECURITIES INC  
PUTNAM COMPANIES  
RANA INC  
RCI NETWORK SERVICES  
ROBERT PLAN INSURANCE CORPORATION  
SAINT JOSEPH HOSPITAL  
SANDERS ASSOCIATES



SUPPLEMENTAL SHOWING, PART 21.100(D)

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(CONT'D)

SCHENECTADY COUNTY, NEW YORK/LAW ENFORCE  
SCRIPPS HOWARD BROADCASTING CO, INC  
SOUTHEASTERN PENNSYLVANIA AUTHORITY  
SOUTHERN NEW ENGLAND TELEPHONE CO  
SOUTHWESTERN BELL MOBILE SYSTEMS - MA  
SPEAR LEEDS AND KELLOGG INC  
SPENCER GIFTS  
STATE STREET BANK AND TRUST COMPANY  
STATE UNIVERSITY OF NEW YORK  
SUBURBAN CABLE TV CO INC  
SUPERIOR CABLE TV  
SUSQUEHANNA CELLULAR COMM LTD PARTNERSHI  
TELEMARK NETWORKS, INC  
TELEMEDIA COMMUNICATIONS, INC  
THE BOEING COMPANY  
TUFTS UNIVERSITY  
URBAN CABLESYSTEMS CORPORATION  
WATCH TOWER BIBLE & TRACT SOCIETY OF NY  
WATERFRONT COMMUNICATIONS CORPORATION  
WCAU-TV  
WELCH ALLYN INC  
WEST CORP COMMUNICATIONS, INC.  
WEST JERSEY HEALTH SYSTEM  
WESTCHESTER, COUNTY OF  
WHYY, INC.



SUPPLEMENTAL SHOWING, PART 21.100(D)

Liberty Cable Co., Inc.  
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(CONT'D)

WILCO ELECTRONIC SYSTEMS, INC  
WXTV-TV

RESPECTFULLY SUBMITTED,

COMSEARCH

MICHAEL R. ROTH  
ENGINEER  
TRANSMISSION PLANNING SERVICES

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

SUPPLEMENTAL SHOWING, RE: PART 94.15(b)

04/12/93

PURSUANT TO PART 94.15(b) OF THE FEDERAL COMMUNICATIONS  
COMMISSION RULES AND REGULATIONS, AN ENGINEERING ANALYSIS  
WAS PERFORMED BY COMSEARCH FOR:

LIBERTY CABLE CO., INC.

420 EAST 54TH -> PASSIVE -> 333 E 55TH, NY  
205 E 64TH -> IMPERIAL HOUSE, NY  
205 E 64TH -> 155 EAST 73RD, NY

18 GHZ VIDEO MICROWAVE SYSTEM

THE RESULTS OF THE STUDY INDICATE THAT THE PROPOSED  
FREQUENCIES DO NOT CAUSE INTERFERENCE CONFLICTS WITH ANY  
EXISTING OR APPLIED-FOR FACILITIES IN THE AREA.

THE LICENSEES AND CALL SIGNS OF THE STATIONS CONSIDERED  
IN THE ANALYSIS ARE AS FOLLOWS:

AAD MICROWAVE SERVICES CORPORATION  
EMPIRE FOSTER MALTAS RXONLY

AAT COMMUNICATIONS CORPORATION  
GROVES WNTF925 WNTF926 WATERT

ABC RADIO NETWORK INC  
WNTF713 WNTF714 WNTI941

ABRAHAM AND STRAUS  
WNEI230 WNEI231 WNEI232 WNEP365

ACC NETWORK CORPORATION  
WLL906

AETNA LIFE INSURANCE COMPANY  
WNTG240 WNTG241

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

## ALBANY TELEPHONE COMPANY

EXCHAN WLN829 WLU913

## ALLENTOWN CELLULAR TELEPHONE COMPANY

WLC579 WLV396 WLV417

## AMERICAN CELL. NET. CORP. dba COMCAST CE

EDISON LAWREN PISCAT TRENTO WLU865 WLU866  
WLV388

## AMERICAN SATELLITE COMPANY

KFN77 WLT371

## AMICA MUTUAL INSURANCE CO C/O NEW ENG DI

LINCOL WNTJ593 WNTJ594 PROVID

## ASSOCIATED PRESS - CTS ENGINEERING

WNEU726 WNEU727 WNEU728

## AT&amp;T COMMUNICATIONS

KE2XGA NASHUA TEMP12 WJM60

## BLUE CROSS BLUE SHIELD OF MASSACHUSETTS

WNEH993 WNTJ749

## BOLT BERANEK AND NEWMAN INC

WNEK843 WNES254

## BOSTON EDISON COMPANY

KCE54 KQV46 MASSA WIA243

## CABLE SCIENCE CORPORATION

12161F 12205F 12399F 1BAYCL 225VAN 675LIN  
902DRE

## CANTON CELLULAR TELEPHONE - PENNSYLVANIA

WLU914 WMJ532

## CARL COMPANY

WNEW501 WNEW517

## CELLULAR OF UPSTATE NEW YORK

WLR257 WLR261

## CELLULAR TELEPHONE COMPANY OF NEW YORK

NORTHV OYSTER PLAINV RIVERH

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

CHANNEL 13 TELEVISION  
60WASH RXONLY

CHANNEL 20 LICENSEE INC  
WNEC213 WNEY957 WNTB844 RECEIV

CHASE MANHATTAN BANK  
WNEE314 WNEE315 WNEF312 WNEF313 WNEI297

CITY UNIVERSITY OF NEW YORK  
MEDGAR MEDOLD

COLUMBIA UNIVERSITY  
WEH950 WEH951

COMDISCO DISASTER RECOVERY SERVICE  
WNEW385 WNEW386 WNEW387

COMMUNITY HOME ENTERTAINMENT  
DARROW RXONLY

COMPUGRAPHIC  
WNEE816 WNEE817

CONNECTICUT BANK AND TRUST COMPANY  
WGY428 WGY429

CONNECTICUT LIGHT AND POWER COMPANY  
KCH90 KYX94 WNEO535 WNEO536 WNEO537 WNEW710  
WNEW711 WGX602

CONNECTICUT PUBLIC BROADCASTING, INC.  
AVON FARMIN GLASTO HARTFO WLI722 WLI726

CONSOLIDATED EDISON COMPANY OF NEW YORK  
4IRVIN WNEK492 WNEQ666 WNEQ667 WNER861 WNTM742  
WNTM743 WGY376 WGY378

CONSOLIDATED RAIL CORPORATION  
WNTH266 WNTH267 WNTH268

CORP. SATELLITE COMMUNICATIONS INC (CSC)  
WNTB677 WHO628

DELMARVA POWER & LIGHT CO.  
WNEQ347 WNTK378 WED963 WJI79

DIGICOM INC  
WLM419 WLN220

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

DOW JONES AND COMPANY, INC.  
WNTI382 WNTI383

EBASCO SERVICES, INC.  
WEE641 WGY475

EDUCATIONAL BROADCASTING COMPANY  
WNEY441 RXONLY

EMI COMMUNICATIONS CORPORATION  
WAU262 WDU469 WFY661 WHE540 WHE558 WHS952  
WHT309 WLB733 WLN513 WLT684 WLU258

FAIRCHILD COMM NETWORK MNGMT CO  
APCITR AT&TLA

FIRST BOSTON CORPORATION  
WNET277 WNEV671 WNTI612 WNTI613 WNTI614

FIRST NATIONAL BANK OF BOSTON  
KYW57 WNEG431

FIRST NATIONAL BANK OF MARYLAND  
WNET904 WNET905 WNET910 WNEV845 SPARRO

FRANKLIN COUNTY OF  
164HIG OLDALB

GREENWICH POLICE DEPARTMENT  
WNTN531 WNTN532 WNTN533 WNTN534 WNTN535

GROUP W TELEVISION / WJZ TV  
WNER697 WNTL882 RXONLY WDT919

GRUMMAN AEROSPACE CORPORATION  
BLDG11 KEF55 WGY415 WGY417 WHJ314 WOODBU

HARRISBURG CELLULAR TELEPHONE COMPANY  
WLU931 WLV546

HUDSON VALLEY COMMUNITY COLLEGE  
WNTI381 RXONLY

IBM RESEARCH AND DEVELOPMENT, INC.  
WNEK528 WNTG324 WEG929 WHI472

INTERACTIVE MEDIA SERVICES  
51MERC BROADH BROOKV WNEW734 WNEW736 WNEW737

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

INTERACTIVE MEDIA SERVICES  
CONTINUED

WNEW797 WNTI967

LAUREL RACETRACK  
HAYWAR NROLLI

LAWRENCE SCHOOL DISTRICT  
WNTJ655 WNTJ656

LEVER BROTHERS  
WNEI491 WNEI492 WNEI493

LIZ CLAIBORNE, INC.  
119W40 WNEX680 WNEX683 WNEX684

LOCAL AREA TELECOMMUNICATIONS INC

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| PAVONI | REPUBL | TEMP03 | TEMP04 | VESEY  | WF CEN |
| WHC978 | WHD272 | WHO845 | WHO846 | WHT458 | WLA804 |
| WLA805 | WLA810 | WLA811 | WLA812 | WLA817 | WLB904 |
| WLB905 | WLK608 | WLK609 | WLK610 | WLK611 | WLK700 |
| WLK701 | WLK703 | WLK739 | WLK899 | WLL461 | WLL528 |
| WLL529 | WLL554 | WLL555 | WLL556 | WLL557 | WLL949 |
| WLL950 | WLM209 | WLM301 | WLM317 | WLM318 | WLM319 |
| WLM744 | WLM881 | WLM939 | WLN303 | WLN304 | WLN305 |
| WLN366 | WLN367 | WLN397 | WLN617 | WLN618 | WLN622 |
| WLN623 | WLN703 | WLN704 | WLN708 | WLN735 | WLN936 |
| WLN937 | WLN940 | WLR227 | WLR228 | WLR229 | WLR286 |
| WLR287 | WLR288 | WLR299 | WLR420 | WLR424 | WLS541 |
| WLS542 | WLT454 | WLT487 | WLT537 | WLT538 | WLT539 |
| WLT558 | WLT559 | WLT560 | WLT561 | WLT562 | WLT811 |
| WLT812 | WLT813 | WLT814 | WLT847 | WLT848 | WLT903 |
| WLT904 | WLT905 | WLT906 | WLU525 | WLU527 | WLU529 |
| WLU569 | WLU570 | WLU637 | WLU638 | WLV389 | WLV416 |
| WLV420 | WLV444 | WLV659 | WMK348 | WMK349 |        |

LONG ISLAND RAILROAD COMMUNICATIONS DEP  
WNEO505 WNEO507 WNEO508

MALRITE  
WNEG653 WNEI922

MARYLAND STATE OF MASS TRANSIT ADMIN  
WNES290 WPREST

MCGRAW HILL, INC. NET ENG N-1  
WNEP966 WNEP967 WNEP968 WNEP969 WHK716

MCI TELECOMMUNICATIONS CORPORATION  
WGX497 WLL859

MEDICAL COLLEGE OF PENNSYLVANIA  
WNEN916 WNEN917

COMSEARCH  
11720 Sunrise Valley Drive  
Reston, Virginia 22091  
(703) 620-6300

METRO CABLE SYSTEMS, INC.  
1820 CC DK

METRO MOBILE CTS OF FAIRFIELD COUNTY  
WML706 WML800 WML801 WML802 WML803

METROMEDIA COMMUNICATIONS CORPORATION  
E RUTH WAH493 WHQ712 WLB372 WLR290 WLR291

METRONET COMMUNICATIONS  
WLL489 WLL490 WLW587 WLW588

METRONET INC RADIO PAGING  
WLK723 WLK724

MICRO TEL OF LONG ISLAND, INC.  
GLENOA LIJ MINEOL WTHE

MICROBAND CORPORATION OF AMERICA  
EMPIRE RXONLY WHR520 WLC745 WMK709

MICROBAND WIRELESS CABLE OF NEW YORK, IN  
MALTAS RXONLY

MICRONET, INC.  
KGN31 WNTK415 WNTK416 VETERA

MICROWAVE SATELLITE TECH. - WOODSIDE

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
| ARGYLE  | BEAC12  | BEAC17  | BEAC21  | BEAC3   | BEAC5   |
| BEAC8   | BEACH   | BEACH1  | BEACH3  | BEACH5  | BEACH8  |
| BEACHH  | BRIGHT  | CHELSEA | FALCON  | FIESTA  | FONTAI  |
| FOUNTA  | LAWREN  | LUNAPA  | NAUTIL  | WNTM203 | WNTM204 |
| WNTM205 | WNTM206 | WNTM207 | WNTM208 | WNTM209 | PATIOG  |
| RXONLY  | SHOFDR  | SHOHAM  | SHOJAC  | SHOREH  | SHOWIL  |
| SOUTH   |         |         |         |         |         |

MIDLAND COMMUNICATIONS CORPORATION  
WLS613 WLS614

MORGAN STANLEY  
WNEU648 WNEU649

MOTOROLA C & E, INC  
CORPOR MIDDLE

NASSAU, COUNTY OF POLICE DEPARTMENT

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 2NDPRE | 3RDPRE | 4THPRE | 5THPRE | 6THPRE | 7THPRE |
| 8THPRE | FRANKL | LILCOB | MANHAS | MARINE | MEMORI |